In Lieu of
Form 3160
(June 1990)

UNITED STATES
DEPARTMENT OF INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

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98 JUN 25 AM 10:45
070 FARMINGTON, NM

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JUL 20 1998
OIL CON. DIV.
DIST. 3

SUNDRY NOTICE AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reenty to a different reservoir. Use "APPLICATION TO DRILL" for permit for such proposals

SUBMIT IN TRIPLICATE

1.	Type of Well ☐ Oil Well ■ *Gas Well* ☐ Other	5. Lease Designation and Serial No. SF-078767
		6. If Indian, Allottee or Tribe Name
		If Unit or CA, Agreement Designation ROSA UNIT
		8. Well Name and No. ROSA UNIT #66M
2.	Name of Operator WILLIAMS PRODUCTION COMPANY	9. API Well No. 30-039-25749
3.	Address and Telephone No. PO BOX 3102 MS 37-4, TULSA, OK 74101 (918) 588-4592	10. Field and Pool, or Exploratory Area BLANCO DK/MV
4.	Location of Well (Footage, Sec., T., R., M., or Survey Description) 2565' FNL & 2350' FWL, SE/4 NW /4 SEC 13-31N-6W	11. County or Parish, State RIO ARRIBA, NM

CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
☐ Notice of Intent	☐ Abandonment	☐ Change of Plans
■ *Subsequent Report*	☐ Recompletion	☐ New Construction
☐ Final Abandonment	☐ Plugging Back DAKOTA	☐ Non-Routine Fracturing
	☐ Casing Repair	☐ Water Shut-Off
	☐ Altering Casing	☐ Conversion to Injection
	■ *Other* COMPLETION OPERATIONS	☐ Dispose Water
		(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

5-16-1998, Day 1: MOL and RU. Install wellhead and BOPs. Pick up and tally 2-3/8" tubing. Pick up 3-7/8" bit and TIH. Hit tight spot at 7200'. Pulled 10,000# over on tubing to free. Worked through tight spot and tagged cement at 8502'. Loaded hole with 31 bbls of water and drilled hard cement to float collar at 8562'. Circulated hole clean and POH 10 stands. SDON.

5-17-1998, Day 2: TOH with tubing and bit. Rig up Blue Jet and RIH with CBL tools. Tool would not go past 7200'. TOH. Wait on smaller tools. Ran smaller tools to 8562' and ran CBL/CCL/GR to 4000'. TOC behind 4-1/2" is 7600' and behind 7" is 4250'. Rig down Blue Jet and SD for Sunday.

5-19-1998, Day 3: TIH openended with 2-3/8" tubing to 8468'. Wait on BJ. Roll hole with 2% KCl water and spot 500 gal of 15% HCl at 8465'. Rig down BJ and TOH. Unload and rack 3-1/2" frac string with rams, elevators, and tongs. SDON.

5-20-1998 , Day 4: RU Blue Jet & RIH w/ junk basket to 8400'. RIH w/ 3-1/8" select fire & perforate Dakota at 8388, 90, 92, 94, 97, 8400, 03, 06, 09, 8440, 43, 46, 48, 50, 52, 55, 58, 60 & 62. Total of 19 holes, EHD: 0.36". RD Blue Jet. RIH w/ packer on 2 stands of 2-3/8", N-80 tbg & 6300' of 3-1/2", N-80 tbg. Set packer 51' inside liner. space out & set w/ 20,000# on packer. Install frac valve & SDON.

CONTINUED ON PAGE 2

14. I hereby certify that the foregoing is true and correct

Signed SUSAN GRIGUHN Title CLERK Date June 22, 1998

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____

ACCEPTED FOR RECORD

Conditions of approval, if any:

JUL 1998

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

FARMINGTON DISTRICT OFFICE

NMOCD

5-21-1998, Day 5: Rig up BJ and establish rate into Dakota at 15 bpm at 4800#. ISIP = 1500#. Breakdown at 2900#. Ball off Dakota with 500 gal of 15% HCl and 31 balls at 15 bpm at 4900#. Ball off complete at 6500#. Bleed down pressure and release packer. TOH with frac string. Ran junk basket and retrieved 31 balls with 19 hits. TIH with packer and 3-1/2" frac string. Set packer 57' inside liner top at 6361' KB. Fraced Dakota with 238 bbl pad of 50 quality foam followed by 37,000# of 20/40 Ottawa sand at 0.5 - 2 ppg. Well screened out when 2 ppg sand hit formation. Job completed at 1600 hrs 5/20/98. ISIP = 6400#, 15 min. = 5800#. AIR = 30 bpm, MIR = 31.4 bpm, ATP = 6350#, MTP = 6500#. No flush. SI well and hooked up flowback manifold. Bleed pressure down from 5800# to 2500# in 1.5 hrs. Turned well over to watchman.

5-22-1998, Day 6: Open well to check pressure. 200# out 1/2". Pressure went to 0#. Release packer & TOH. Change out rams & tong dies. RIH w/ 2-7/8" tbg. (open ended). Tag sand @ 7700'. Clean out to 7884'. Pull up to 7700'. Shut well in & secure location. SDON.

5-23-1998, Day 7: TIH and tag sand at 7880'. Reverse circulated out sand to 8562'. Circulated hole clean and TOH. Ready well to run tracer log.

5-24-1998, Day 8: Rig up Blue Jet and run after frac tracer survey. Logged from PBTD to 8200'. Both upper and lower zones took sand. The perf at 8440' took the least. Rig down Blue Jet. TIH with 4-1/2" packer on 3-1/2" tubing to 6200'. Tag liner top and POH 1 joint. Ready well to frac 5/26/98.

5-27-1998, Day 9: TIH and set packer at 6364' KB. Rigged up frac valve and frac crew. Pressure tested lines. Held safety meeting. Established rate into Dakota (8388' - 8462') at 30 bpm and 6200# with 238 bbl pad of Viking 40 frac fluid. Fraced Dakota with 78,000# of 20/40 Ottawa sand and 12,000# of SDC at 1 -4 ppg. Job completed at 1115 hrs. 5/26/98. ISIP = 3400#, 15 min. = 2950#. AIR = 30 bpm, MIR = 31.5 bpm, ATP = 5900#, MTP = 6300#. Total fluid = 1322 bbls. Shut well in and rigged down frac crew. SDON.

5-28-1998, Day 10: Released packer and TOH, laying down frac string. TIH openended with 2-3/8" tubing to 2500'. Unloaded well with gas. Unloaded well at 3500', 4500' and 6300'. Had some trouble unloading well at 6300'. Well would unload 10 - 15 bbls then load up again. Does not appear to be any gas yet from the well. Turned over to watchman.

5-29-1998, Day 11: Drove to location. Load 3-1/2" tbg, slips and elevators. Send to town. RIH with tbg to 7500'. Unload with compressor. Ran sweep. RIH to 8000' and unload. RIH with tagged sand @ 8300'. Ran sweep. CO sand to 8680'. All perfs open and no help from bottom. TOH with tbg. Secure location.

5-30-1998, Day 12: Drove to location and RU Blue Jet. Set 7" RBP @ 6210'. TIH with 2-3/8" tbg and spot 500 gals of 15% HCl over interval to be perforated. TOH with tbg. Perforate Point Lookout with 37 holes from 5884' to 6192'. SDON.

5-31-1998, Day 13: Pressure test lines to 5000#. Balled off Point Lookout in 1000 gal of 15% HCl and 55 ball sealers. Good ball action and complete ball off to 3100#. Ran junk basket and retrieved 55 balls with 34 hits. Fraced PL with 80,000# of 20/40 sand at 1-2 ppg in 2,028 bbl of slick water. Job completed at 0900 hrs. 5/30/98. ISIP = 650#, 15 min. = 0#. AIR = 98 BPM, MIR = 100 BPM, ATP = 3000#, MTP = 3300#. Set 7" RBP at 5875'. Dump bailed sand on top of RBP. Pressure tested to 3500# - held OK. Dump bailed 10 gal of 15% HCl across bottom CH/MEN. TOH. Perforate CH/MEN at 5610, 12, 46, 50, 54, 56, 58, 60, 62, 64, 66, 84, 86, 5724, 26, 28, 30, 32, 34, 36, 38, 40, 5802, 04, 06, 08, 10, 12, 14, 16, 52, and 60. Total of 32 (0.37") holes. Ball off CH/MEN with 48 ball sealers in 1500 gal of 15% HCl. Ran junk basket and retrieved 48 balls with 31 hits. Fraced CH/MEN with 80,000# of 20/40 sand at 1-2 ppg in 2149 bbl of slick water. Job completed at 1315 hrs. 5/30/98. ISIP = 850#, 15 min = 0#. AIR = 81 BPM, MIR = 82 BPM, ATP = 3000#, MTP = 3150#. Rigged down frac crew. TIH and unloaded well at 2500' and at 3750'. Left well blowing with compressor. Turn well over to watchman.

6-02-1998, Day 14: Compressor went down at 0130. Well flowed on its own for 2 hours. SI at 0330. Pressure at 0700 = 1250#. Blew well down and TIH. Tagged fill at 5818' (only 2 perfs covered). Cleaned out to RBP. Compressor down for repairs. Blew well with 225# drill gas. POH 2 stands above top perf and ran soap sweep. SDON. Wait on compressor parts.

6-03-1998, Day 15: SICP = 1200#. Blow well down. TIH and clean out 18' of fill. TOH with tubing and pitot test well at 2286 MCFD. TIH with retrieving head and tag 8' of fill. Blow well with drill gas while working on the compressor. Blow well with compressor and run hourly soap sweeps. Well is making a small amount of water and sand. POH above perfs and turn well over to watchman.

6-04-1998, Day 16: TIH & tag up on sand - had 11' to clean out. Ran 2 soap sweeps. Load hole w/ 50 bbls of water. Latch onto RBP & open by pass. Release RBP & TOH. Had to kill well w/ 30 bbls of water on way out. Lay down RBP & let well flow thru blooie line. TIH open ended & tag sand 60' above RBP. Clean out sand. Ran soap sweep from top of plug. Pull up & ran soap sweep. Secure location & turn over to night watch.

6-05-1998, Day 17: TIH w/ tbg. & tag up on sand - had 48'. Clean out to RBP. Pull up to 5884 & flow w/ compressor. RIH & tag 5' of sand. flow w/ compressor. Ran soap sweep every hr. TOH w/ tbg. Flow well thru 2" for 30 min. Pitot: 26# out 2" - 3400 mcfd. RIH w/ tbg. & ret. head. tag 2' of sand. Pull up to 5884'. Turn over to night watch. SDON.

6-06-1998, Day 18: TIH and tag 12' of sand. Clean out with compressor. Release RBP. Dakota on a vacuum and dumped MV sand on RBP. Worked plug with water to 5300' and hung up. Rig up nitrogen truck and unload well. TOH with RBP. TIH with tubing openended and tag fill 100' above PBTD. Circulated hole clean. TOH. Wait on Blue Jet. Set production packer at 6204'. SI well. Tally tubing. Turn over to night watch. SDON.

6-07-1998, Day 19: SICP = 1200#. Blow well down and start TIH. TOH and replace 3-1/16" collars with turned down collars so they would fit through the seal bore. Ran seal assembly on 272 joints of 2-3/8" tubing with 8', 2 - 6', 4', 3', and 2' subs one joint down from the top. Mule shoe on bottom. Total tubing = 8411' and set at 8431'. Change out offset spool and rams. Mesa Verde production string was 195 joints of 2-3/8" tubing (6021.83') and set at 6036' KB. SI well. Rigged down and released rig. FINAL REPORT.